

What is claimed is:

1. A display apparatus comprising:

a first display panel having a plurality of first scanning electrodes and a plurality of first signal electrodes; and

a second display panel having a plurality of second scanning electrodes and a plurality of second signal electrodes,

wherein the first display panel is stacked on the second display panel such that (i) terminals of the first scanning electrodes oppose to terminal of the second scanning electrodes, and (ii) terminals of the first scanning electrodes are electrically connected to terminals of the second scanning electrodes, respectively.

2. A display apparatus as claimed in claim 1, wherein the terminals of the first scanning electrodes are directly connected to the terminals of the second scanning electrodes, respectively.

3. A display apparatus as claimed in claim 2, further comprising a pressuring member for electrically connecting the terminals of the first scanning electrodes and the second scanning electrodes while in pressure contact with each other.

4. A display apparatus as claimed in claim 1, wherein the terminals of the first scanning electrodes are respectively connected to the terminals of the second scanning

electrodes via a conductive material in between.

5. A display apparatus as claimed in claim 4, the conductive material comprising a wiring material having exposed conductive portions for electrically connecting the terminals of the first scanning electrodes and the terminals of the second scanning electrodes, respectively.

6. A display apparatus as claimed in claim 4, further comprising a pressuring member for electrically connecting the terminals of the first scanning electrodes and the second scanning electrodes while in pressure contact with each other.

7. A display apparatus as claimed in claim 1, further comprising a third display panel having a plurality of third scanning electrodes and a plurality of third signal electrodes.

8. A display apparatus as claimed in claim 7, wherein the third display panel is disposed between the first and second display panels.

9. A display apparatus as claimed in claim 8, wherein the third scanning electrodes are electrically connected to the first scanning electrodes, respectively.

10. A display apparatus as claimed in claim 1, wherein the first, second, and third display panels are stacked each other in this order.

11. A display apparatus as claimed in claim 10, wherein the third scanning electrodes are electrically connected to the first scanning electrodes, respectively.

12. A display apparatus as claimed in claim 1, further comprising a scanning electrode drive circuit to which the first scanning electrodes and the second scanning electrodes are commonly connected.

13. A display apparatus as claimed in claim 12, further comprising:

a first signal electrode drive circuit to which the first signal electrodes are connected; and

a second signal electrode drive circuit to which the second signal electrodes are connected.

14. A manufacturing method of a display apparatus comprising the steps of:

(a) stacking multiple display panels, each of which has first and second electrodes, such that terminals of the first electrodes of at least two display panels oppose each other; and

(b) electrically connecting the terminals of the opposing first electrodes after the step (a).

15. A manufacturing method as claimed in claim 14, wherein the step (b) is carried out

by placing the terminals in direct pressure contact with each other

16. A manufacturing method as claimed in claim 14, wherein the step (b) is carried out by using a conductive material between the terminals.

17. A manufacturing method of a plurality of display apparatuses comprising the steps of:

(a) forming a plurality of first display panels that are connected each other by carrying out the sub steps of:

(a-1) disposing a first liquid crystal material a first substrate on which a plurality of first scanning electrodes are formed and a second substrate on which a plurality of first signal electrodes, which extend in a different direction from the first scanning electrodes, are formed; and

(a-2) dividing the second substrate into a plurality of sections along the first scanning electrodes,

(b) forming a plurality of second display panels that are connected each other by carrying out the sub steps of:

(b-1) disposing a second liquid crystal material between a third substrate on which a plurality of second scanning electrodes are formed and a fourth substrate on which a plurality of second signal electrodes, which extend in a different direction from the second scanning electrodes, are formed;

(b-2) dividing the second substrate into a plurality of sections along the

second scanning electrodes; and

(b-3) forming openings on the third substrate such that tongue-like terminals of the second scanning electrodes are formed;

(c) stacking the second display panels on the first display panels such that the first scanning electrodes oppose to the second scanning electrodes; and

(d) connecting the tongue-like terminals of the second scanning electrodes to the first scanning electrodes.

18. A manufacturing method as claimed in claim 17, further comprising the steps of:

(e) forming a third display panels that are connected each other by carrying out the steps of:

(e-1) disposing a third liquid crystal material between a fifth substrate on which a plurality of third scanning electrodes are formed and a sixth substrate on which a plurality of third signal electrodes, which extend in a different direction from the third scanning electrodes, are formed;

(e-2) dividing the sixth substrate into a plurality of sections along the second electrodes;

(e-3) forming openings on the fifth substrate such that tongue-like terminals are formed; and

(f) stacking the third display panels on the second display panels such that the first scanning electrodes and the third scanning first electrodes oppose each other.